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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,653	12/13/2006	Hiroyuki Saimoto	5703-000014/US/NP	2294
	7590 05/06/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. BOX 828		CHANDRAKUMAR, NIZAL S		
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			05/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/575,653	SAIMOTO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		NIZAL S. CHANDRAKUMAR	1625			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the o	correspondence address			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stature reply received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
<ol> <li>Responsive to communication(s) filed on <u>07 April 2008</u>.</li> <li>This action is <b>FINAL</b>.</li> <li>This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>						
Disposit	ion of Claims					
5)□ 6)⊠ 7)□ 8)□ <b>Applicat</b> 9)□	Claim(s) 1-17 is/are pending in the applicatio 4a) Of the above claim(s) 12-17 is/are withdra Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/ ion Papers The specification is objected to by the Examin The drawing(s) filed on is/are: a) according to the correct of	awn from consideration.  for election requirement.  her.  ccepted or b) □ objected to by the let of the design of the let of the le	e 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority <b>ı</b>	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Information	te of References Cited (PTO-892) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date 09/12/2007, 12/13/2006, 04/14/2006.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal F 6)  Other:	ate			



Application No.

#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election without traverse of Group I, claims 1-11 in the reply filed on 04/07/2008 is acknowledged.

Claim 12-17 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 04/07/2008.

This application contains claim12-17 drawn to an invention nonelected with traverse in the reply filed on 04/07/2008. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-11 rejected under 35 U.S.C. 102(b) as being anticipated by Minagawa et al. JP 09165332 (applicant cited reference).

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The protozoacides contain ascochlorins I [A = Q; R1 = CHO, CO2H; R2 = (CnH2n)R3 (n = 1-5; R3 = H, CO2R4; R4 = H, C1-3 alkyl), COR5 (R5 = pyridyl, C1-3 alkylamino, halophenoxyalkyl, Ph substituted with C1-3 alkoxy or C1-3 alkoxycarbonyl)] or ascofuranones I (A = Q1) as active ingredients.

#### Hosokawa WO 9404520

Title compds. [I; R = H, alkylcarbonyl, pyridinylcarbonyl, (un)substituted benzoyl, etc.; II; R1 = alkylcarbonyl, pyridinylcarbonyl, etc.]

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Hosokawa et al. WO 9404520.

#### **Instant Case:**

Instant claims are drawn to Ascofuranone-like compounds of the formula (I) such as the following useful as pharmaceuticals:

$$\begin{array}{c} \text{OH} \\ \text{R}^2 \\ \text{OH} \end{array} \qquad \begin{array}{c} \text{OH}^4 \\ \text{OH} \\ \text{OH}$$

### **Prior art:**

Hosokawa et al. teach Ascofuranone-like compounds useful as pharmaceuticals:

Hosokawa et al. teachings suggest that benzene compounds with most of the polar substitunets are important for retention of biological activirty and side chains attached to the benzene ring do not adversely affect the biological properties

Hosokawa et al. does not teach all the side chain variables R4 of the instant claims. The difference between the prior art and instant case compounds is the hydrocarbon side chain. The instant case side chain R4 has saturated bonds and hydroxyl groups while the compounds of Hosokawa et al. have double bonds and carbonyl containing groups as end units of the side chain.

However one skilled in the art recognize that the side-chain corresponding to R4 provide opportunity to optimize the biological activity of Ascofuranone-like compounds because Hosokawa et al. teach that differences in the side chain do not adversely affect the activity and hence one skilled in the art would be motivated to make additional analogs of Hosokawa et al. compounds with R4 modifications with a reasonable expectation of success. The instantly claimed compounds would be suggested and thus obvious to one skilled in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIZAL S. CHANDRAKUMAR whose telephone number is (571)272-6202. The examiner can normally be reached on 8.30 AM - 4.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Janet Andres can be reached on 571 0272-0867. The fax phone number for the organization where this
application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nizal S. Chandrakumar

/D. Margaret Seaman/

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Primary Examiner, Art Unit 1625